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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
09/446,543	12/20/1999	SHUJI HINUMA	2472US0P	2478		
23115 75	90 12/03/2003		EXAMINER			
TAKEDA PHARMACEUTICALS NORTH AMERICA, INC INTELLECTUAL PROPERTY DEPARTMENT			MITRA, RITA			
475 HALF DAY		ART UNIT	PAPER NUMBER			
SUITE 500			1653	1653		
LINCOLNSIIIF	RE, IL 60069	DATE MAILED: 12/03/2003				

Please find below and/or attached an Office communication concerning this application or proceeding.

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_			Application	n No.	Applicant(s)				
Office Action Comments		09/446,54	3	HINUMA ET AL.					
Office Action Summary			Examiner		Art Unit				
	C. MAN INO DATE AND		Rita Mitra		1653				
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THE MA - Extension after SIX - If the peri - If NO per - Failure to - Any reply	TENED STATUTORY PERIOD ILING DATE OF THIS COMMU no of time may be available under the provision (6) MONTHS from the mailing date of this coloid for reply specified above is less than thirty od for reply is specified above, the maximum or eply within the set or extended period for representation to receive the option of the	NICATION. ons of 37 CFR 1.136 mmunication. r (30) days, a reply v statutory period will ply will, by statute, o s after the mailing d	6(e). In no eve within the statu Il apply and will cause the appli	nt, however, may a reply be ti tory minimum of thirly (30) da expire SIX (6) MONTHS fron cation to become ABANDON!	imely filed bys will be considered timel the mailing date of this c ED (35 U.S.C. § 133).				
1)⊠ R∈	esponsive to communication(s) t	iled on <u>07 Aug</u>	<u>gust 2003</u> .						
2a) <u></u> Th	is action is FINAL.	2b) This a	ction is no	n-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition	of Claims								
4a) 5)☐ Cli 6)⊠ Cli 7)☐ Cli	aim(s) <u>22 and 23</u> is/are pending Of the above claim(s) is aim(s) is/are allowed. aim(s) <u>22 and 23</u> is/are rejected aim(s) is/are objected to. aim(s) are subject to rest	/are withdrawr	n from con						
Application	Papers								
10)☐ The Ap Re 11)☐ The	e specification is objected to by e drawing(s) filed on is/ar plicant may not request that any obplacement drawing sheet(s) including on the country of the country o	e: a) accep jection to the dr ng the correctio	oted or b)[rawing(s) be on is require	e held in abeyance. Se d if the drawing(s) is ob	ee 37 CFR 1.85(a). Djected to. See 37 CF	• •			
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a)	knowledgment is made of a clair All b) Some * c) None of Certified copies of the priorit Copies of the certified copies of the priorit application from the International the attached detailed Office act nowledgment is made of a claim a specific reference was include FR 1.78. The translation of the foreign land the first seems a specific reference was included in the first seems.	y documents by documents of domestic by documents by docu	have been have been by documer (PCT Rule f the certific priority under sentence disional appropriority under the certific priority under the c	received. received in Applications have been received in Application 17.2(a)). ed copies not received as 5 U.S.C. § 119(application of the specification of the specification for the specification fo	tion No ed in this National ed. (e) (to a provisional or in an Application ceived. and/or 121 since	l application) Data Sheet. a specific			
Attachment(s)									
2) D Notice of	References Cited (PTO-892) Draftsperson's Patent Drawing Review on Disclosure Statement(s) (PTO-1449)			4) X Interview Summary 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

In view of the amendment filed on August 7, 2003, prosecution is hereby reopened.

Status of the Claims

Applicants' amendment and response to office action dated May 7, 2003, filed on August 7, 2003 is acknowledged and has been entered. Claims 20-21 and 24-35 have been cancelled. Claims 22 and 23 have been amended. Therefore, claims 22 and 23 are currently pending and are under examination.

Response to Remarks and Arguments

Withdrawal of Objection/Rejections

The objection to Specification is withdrawn in view of Applicants' amendment to specification and claims by assigning a SEQ ID NO: 5 to 19P2-L31.

The rejection of claims 20-21 and 24-35 under 35 U.S.C. § 112, first paragraph is moot in view of Applicants' cancellation of the claims.

The rejection of claims 20-21 and 24-35 under 35 U.S.C. § 112, second paragraph is most in view of Applicants' cancellation of the claims.

The rejection of claims 20-23 under 35 U.S.C. § 102(a) and 102(e) as being unpatentable over Hinuma et al. (US 6,228,984) is moot in view of Applicants' cancellation of claims 20 and 21. The rejection of claims 22 and 23 is withdrawn in view of Applicants' amendment to claims.

The rejection of claims 20-23 under 35 U.S.C. § 102(a) as being unpatentable over Hinuma et al. (Nature, vol 393, No. 6682, pp272-276, 21 May 1998) is moot in view of Applicants' cancellation of claims 20 and 21. The rejection of claims 22 and 23 is withdrawn in view of Applicants' amendment to claims.

Rejections under 35 U.S.C. § 112, Second Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claims 22 and 23 stand/are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 22 and 23 stand rejected as being indefinite because they lack essential steps as claimed in the methods. The omitted steps are: the site and method of administration, the therapeutically effective amount of the agent and a step whereby the desired outcome using the claimed polypeptide can be determined. Applicants have not addressed 112, second paragraph rejection in the response of office action dated May 7, 2003.

New grounds of Rejection

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (c) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 22 and 23 are rejected under 35 U.S.C. 102(a) and 102(e) as being anticipated by Hinuma et al. (US Patcnt 6, 228,984, Issued May 8, 2001; 102(e) date: February 6, 1997). Hinuma et al. teach a novel ligand polypeptide for the G protein-coupled receptor protein, having an amino acid sequence set forth in SEQ ID NO: 73 or its substantial equivalent thereto, or its

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amide or ester or salt thereof. The polypeptide has an amino acid sequence of SEQ ID NO: 5 (US '984 technical field col. 1; col. 2 lines 36-47 and claims 1, 2). The reference teaches a pharmaceutical composition containing the polypeptide (pituitary function modulator, '984, col. 3, lines 15-17) and has 100% sequence identity to SEQ ID NO: 5 (see alignment result, Database: Issued_Patents_AA, AC NO: US-08-776-971-5) (claims 22, 23). Hinuma's polypeptide comprising SEQ ID NO: 5 is considered for the ligand polypeptide having an amino acid sequence of SEQ ID NO: 5 for the use in a method for promoting prolactin secretion, (claims 22-23). Therefore, claims 22-23 of the instant application are anticipated by Hinuma et al.

Conclusion

No claim is allowed.

Inquiries

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Rita Mitra whose telephone number is (703) 605-1211. The Examiner can normally be reached from 9:30 a.m. to 6:30 p.m. on weekdays. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Dr. Christopher Low, can be reached at (703) 308-2923. Papers related to this application may be submitted to Technology Center 1600 by facsimile transmission. Papers should be faxed to Technology Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Fax Center number is (703) 308-4242. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Rita Mitra, Ph.D. November 25, 2003

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